INDEX OF AUTHORS

APPLETON, T.C. 217

BAILEY, P.J. 209
BAMBURG, J.R. 169
BELL, P.R. 109
BRADLEY, T.J. 117
BRIERS, J.D. 289

CALLOW, J.A. 103
CALLOW, M.E. 103
CATT, J.W. 103
CHADWICK, C.M. 251
COSSON, M.P. 231

de BONO, D. 89
DICKINSON, J.R. 355
DOUGLAS, W.H.J. 199

ELLAR, D.J. 181
ELLIOTT, G.C. 267
ENDERS, G.C. 303
EVANS, L.V. 103

FLOWER, N.E. 289
FRIEND, D.S. 303
FUJISHIMA, M. 51

GARROD, D.R. 251
GELLER, R.L. 29
GIBBONS, I.R. 231
GREEN, C. 89

HEATH, J.P. 331
HIGGINS, T.J.C. 209
HINSSEN, H. 13
HOBBS, V.S. 169
HOCKADAY, A. 217
HUFNAGEL, L.A. 137

JENKINS, R.A. 169
JOHNSON, R.T. 267
JOHNSTON, J.M. 199

LILIEN, J. 29

NAIB-MAJANI, W. 13
NEUHAUS, G. 1

OKADA, H. 157
OSBORN, M. 13

RAHA, S. 67

SAGA, Y. 157
SCHWEIGER, H.-G. 1
SHOEMAN, R.L. 1
SOMMERS-SMITH, S.K. 199
STEPHEN, J. 217
STOCKEM, W. 13

TANG, W.-J.Y. 231
THOMAS, W.E. 181

VITHANAGE, H.I.M.V. 103

WARLEY, A. 217
WEBER, K. 13
WERB, Z. 303
WESEMANN, W. 67
WOLFARTH-BOTTERMANN, K.-E. 13

YANAGISAWA, K. 157

INDEX OF SUBJECTS

Acetabularia
gene expression: SHOEMAN, NEUHAUS & SCHWEIGER 1
Actin
lack of involvement in contraction and mitosis in *Spirostomum teres*: HOBBS, JENKINS & BAMBURG 169
Actomyosin
patterns in sandwiched plasmodia of *Physarum polycephalum*: NAIB-MAJANI, OSBORN, WEBER, WOLFARTH-BOTTERMANN, HINSSEN & STOCKEM 13
Alveolar pneumonocytes
type II, cultured, surfactant synthesis in: DOUGLAS, SOMMERS-SMITH & JOHNSTON 199
Anoxia
of heart cells, fatty acid metabolism: BAILEY & HIGGINS 209
Antigen localization
on fertilized eggs in brown algae: VITHANAGE, CATT, CALLOW, CALLOW & EVANS 103
ATPase activity
in *N*-ethylmaleimide-treated sea-urchin sperm: COSSON, TANG & GIBBONS 231

Bacillus thuringiensis
crystal δ-endotoxin, effects on insect and mammalian cells: THOMAS & ELLAR 181
Brown algae
antigen localization on fertilized eggs: VITHANAGE, CATT, CALLOW, CALLOW & EVANS 103

Calcium
-dependent adhesion in embryonic neural retina: GELLER & LILIEN 29
Cell cohesion
in *Dictyostelium discoideum*: CHADWICK & GARROD 251
Cell cycle control
in *Schizosaccharomyces pombe*: DICKINSON 355
Cell interactions
between endothelial and intimal human cells: DE BONO & GREEN 89
Cell movement
in fibroblasts, leading lamella: HEATH 331
Cell surface
of leading lamella in moving fibroblasts: HEATH 331
Cell surface glycoprotein
in adhesion of embryonic neural retina cells: GELLER & LILIEN 29
Cell transformation
accompanied by decline in ultraviolet-induced incision rate in mouse embryo fibroblasts: ELLIOTT & JOHNSON 267
Cellular repair
in embryonic neural retina cells: GELLER & LILIEN 29
Ciliogenesis
in *Tetrahymena*, freeze-fracture of membranes: HUFNAGEL 137
Contact sites
B, cohesion molecule in *Dictyostelium*: CHADWICK & GARROD 251
Contractility
in *Spirostomum teres*: HOBBS, JENKINS & BAMBURG 169
Cytoskeleton
of *Physarum polycephalum*, immunochemistry: NAIB-MAJANI, OSBORN, WEBER, WOHLFARTH-BOTTERMAN, HINSSEN & STOCKEM 13

Dictyostelium discoideum
cohesion molecule, contact sites B: CHADWICK & GARROD 251
macrocyst development: SAGA, OKADA & YANAGISAWA 157
DNA repair
in mouse embryo fibroblasts: ELLIOTT & JOHNSON 267
DNA synthesis
regulation in pre-meiosis of *Paramecium caudatum*: FUJISHIMA 51

Egg cell
of *Pteridium aquilinum*, nuclear bodies in: BELL 109
Electron microscopy
of insect nerve membranes: FLOWERS & BRIERS 289
Endothelium
human vascular, interaction with intimal spindle-shaped cells: DE BONO & GREEN 89
Endotoxin
effect on differentiation of guinea pig megakaryocytes to platelets: RAHA & WESEMANN 67

δ-Endotoxin
from *Bacillus thuringiensis*, effects on insect and mammalian cells: THOMAS & ELLAR 181
Extracellular matrix
in control of endothelial cell behaviour: DE BONO & GREEN 89

Fatty acid metabolism
by anoxic and reoxygenated heart cell cultures: BAILEY & HIGGINS 209
Fern
maturing egg cell, nuclear bodies in: BELL 109
Fibroblasts
leading lamella in cell movement: HEATH 331
Fluid transport
in Malpighian tubules of *Rhodnius*: BRADLEY 117
Freeze-fracture
of insect nerve membranes, particle arrays: FLOWER & BRIERS 289
Freeze-fracture electron microscopy
of early neogenesis of cilia of *Tetrahymena*: HUFNAGEL 137
Frozen sections
of HeLa S3 cells, X-ray microanalysis: WARLEY, STEPHEN, HOCKADAY & APPLETON 217
Fucus
fertilization, localization of sperm-specific antigens: VITHANAGE, CATT, CALLOW, CALLOW & EVANS 103
Fusion-competence
in *Dictyostelium* macrocyst development: SAGA, OKADA & YANAGISAWA 157

Gene expression
in *Acetabularia*: SHOEMAN, NEUHAUS & SCHWEIGER 1
Glycolysis
in anoxic and reoxygenated heart cell cultures: BAILEY & HIGGINS 209
Guinea pig
thrombopoiesis, effect of endotoxin: RAHA & WESEMANN 67

Heart cells
cultured, fatty acid metabolism: BAILEY & HIGGINS 209
HeLa S3 cells
X-ray microanalysis: WARLEY, STEPHEN, HOCKADAY & APPLETON 217

Immunocytochemistry
of *Polycephalum*, morphology and actomyosin: NAIB-MAJANI, OSBORN, WEBER, WOLFARTH-BOTTERMANN, HINSSEN & STOCKEM 13
Immunoflourescence
in antigen localization of eggs of brown algae: VITHANAGE, CATT, CALLOW, CALLOW & EVANS 103
Insect nerves
freeze-fracture of membranes: FLOWER & BRIERS 289

K/Na ratios
in randomly growing HeLa S3 cells: WARLEY, STEPHEN, HOCKADAY & APPLETON 217

Lectin binding
to guinea-pig sperm zipper particles: ENDERS, WERB & FRIEND 303

Macrocysts
development in *Dictyostelium discoideum*: SAGA, OKADA & YANAGISAWA 157
Malpighian tubules
of the insect *Rhodnius*, microvilli: BRADLEY 117
Megakaryocytes
differentiation to platelets, effect of endotoxin: RAHA & WESEMANN 67
Membrane structure
in cilia of *Tetrahymena*: HUFNAGEL 137
Microfilaments
in leading lamella of moving fibroblasts: HEATH 331
Microvilli
functional design in *Rhodnius* Malpighian tubules: BRADLEY 117
Motility
of sea-urchin sperm: COSSON, TANG & GIBBONS 231
Mouse embryo fibroblasts
DNA repair in: ELLIOTT & JOHNSON 267

Nuclear bodies
maturing egg cell of *Pteridium aquilinum*: BELL 109
Nucleoside diphosphokinase
in *Schizosaccharomyces pombe*: DICKINSON 355

Paramecium caudatum
regulation of pre-meiotic DNA synthesis: FUJISHIMA 51
Particle arrays
on insect nerve membrane: FLOWER & BRIERS 289

Physarum polycephalum
immunochemistry of thin plasmodia and actomyosin: NAIB-MAJANI, OSBORN, WEBER, WOLFARTH-BOTTERMANN, HINSSEN & STOCKEM 13
Phosphatidate phosphohydrolase
as marker for surfactant synthesis in cultured pneumonocytes: DOUGLAS, SOMMERS-SMITH & JOHNSTON 199
Plasmalemma
in *Dictyostelium* cell cohesion: CHADWICK & GARROD 251
Platelets
differentiation in guinea pig: RAHA & WESEMANN 67
Pre-meiosis
DNA synthesis in *Paramecium*: FUJISHIMA 51
Pteridium aquilinum
nuclear bodies in maturing egg cell: BELL 109

Reoxygenation
of heart cells, fatty acid metabolism: BAILEY & HIGGINS 209

Schizosaccharomyces pombe
nucleoside diphosphkinase and cell cycle control in: DICKINSON 355
Solute–water coupling
in Malpighian tubules of *Rhodnius*: BRADLEY 117
Sperm
motility in sea-urchin: COSSON, TANG & GIBBONS 231
zipper particles of guinea pig, lectin binding: ENDERS, WERB & FRIEND 303
Spirostomum teres
mitosis and contraction: HOBBS, JENKINS & BAMBURG 169
Surfactant synthesis
in cultured alveolar pneumonocytes: DOUGLAS, SOMMERS-SMITH & JOHNSTON 199

Tetrahymena
freeze-fracture of membranes in early neogenesis of cilia: HUFNAGEL 137
Thrombopoiesis
in guinea pig, effect of endotoxin: RAHA & WESEMANN 67
Tissue culture
of insect and mammalian cells, effects of *Bacillus thuringiensis* δ-endotoxin: THOMAS & ELLAR 181
Toxicity
of *Bacillus thuringiensis* δ-endotoxin for insect and mammalian cells: THOMAS & ELLAR 181
Translational regulation
in *Acetabularia*: SHOEMAN, NEUHAUS & SCHWEIGER 1
Two-dimensional electrophoresis
of cytosolic proteins and translation products in *Acetabularia*: SHOEMAN, NEUHAUS & SCHWEIGER 1

Ultraviolet irradiation
in DNA repair in mouse embryo fibroblasts: ELLIOTT & JOHNSON 267

X-ray microanalysis
of HeLa S3 cells: WARLEY, STEPHEN, HOCKADAY & APPLETON 217

Zipper particles
of guinea-pig sperm, lectin binding: ENDERS, WERB & CAROTHERS 303